	Inder the Paperwork Reduction Act of 1995, no persons are	edmun tontroo BMO bilay a enfatroo ti azeinu noltermotni to noltoeloo a ot broquen ot beniuper	
Substitute for form 1449A/PTO	Complete II Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application Number	10/728,436	
(Use as many sheets as necessary)	Filing Date	December 5, 2003	
(01.5 kg	First Named Inventor	Chen, Yung-Tin	
01.5	Group Art Unit	1756	
MAY 2 1 200s	xaminer Name	Unknown	
Sheet 1 of 3 MAY 3 1 2005	torney Docket No: N	/A-111	
	<b>Y</b>		

		COULD	S PATENT C	OCUMENTS			
Examiner Initial *	Cite No	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
	A1	6057063	05/02/2000	Liebmann et al.			
75	A2	6523165	02/18/2003	Liu et al.			
TQ.	A3	6541165	04/01/2003	Pierrat			
	A4	6551750	04/22/2003	Pierrat			
1367	_A5	6569583	05/27/2003	Cho et al.	<u> </u>		
160	A6	US20030022074A1	01/30/2003	Nolscher			

	FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T²

	OTH	ER DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Tr
#2	A7	BERNARD, DOUGLAS.A. ,et al. ,"Clear Field Dual Alternating Phase Shift Mask Lithography", Optical Microlithography XV, SPIE Vol. 4691, (2002),999-1008	
	A8	BURKHARDT, M.,et al., "Through Pitch Correction of Scattering Effects in 193 nm Alternating Phase Shift Masks", Optical Microlithography XV Vol. 4691, No. I, SPIE, (2002),348-358	
	A9	CHA, HAN-SUN., et al., "A Study on Optimization of Alternating Phase Shifting Mask Structure", 21st Annual BACUS Symposium on Photomask Technology, SPIE Vol.4562, No. II, (2002), 1008-1016	
	A10	FERGUSON, RICHARD.A., "Pattern-Dependent Correction of Mask Topography Effects for Alternating Phase-Shifting Masks", SPIE Vol. 2440, (2/95),349-360	
	A11	GRIESINGER, UWE.,et al., "Balancing of Alternating Phase Shifting Masks for Practical Application: Modeling and Experimental Verification", Proc. of SPIE, Vol. 4186, (2001),372-383	
	A12	GRIESINGER, UWE.,et al., "Transmission & Phase Balancing of alternating Phase Shifting Masks (5X)-Theoretical & Experimental Result", 19th Annual Symposium on Photomask Technology Vol. 3873, No. 1, SPIE, Published in: Monterey, US,(1999),359-369	
	A13	IRIE, SHIGEO., "Sub-70-nm Pattern Fabrication using an Alternating Phase Shifting Mask in 157-nm Lithography", Optical Microlithography XV, SPIE, Vol. 4691, (2002),1654-1664	
	A14	KANG, MYUNG-AH., "Feasibility evaluations of alternating phase shift mask for imaging sub-80nm feature with KrF", Optical Microlithography XVI, SPIE Vol. 5040, (2003),1115-1124	
AR	A15	KIM, KEEHO.,et al., "Optimization of Process Condition to Balance MEF and OPC for Alternating PSM-Control of Forbidden Pitches", Optical Microlithography XV, Vol. 4691, No.I, SPIE, (2002),240-246	

	<u> </u>			1
				1 0/
EXAMINER	TO NO CO	DATE CONSIDERED		1-0)[_
	1200000		<i>(/-</i>	

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Complete if Known		
	Application Number	10/728,436	
	Filing Date	December 5, 2003	
	First Named Inventor	Chen, Yung-Tin	
	Group Art Unit	1756	
	Examiner Name	Unknown	
Sheet 2 of 3	Attorney Docket No: N	MA-111	

	OTH	ER DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	7
10	A16	KOO, SANG-SOOL.,et al., "Study on the Potentialities of sub-100nm Optical Lithography of Alternating and Phase-edge Phase Shift Mask for ArF Lithography", 20th Annual BACUS Symposium on Photomask Technology, Vol. 4186, SPIE, (2001),346-358	
	A17	KOSTELAK, R.L. ,et al. ,"Exposure Characteristics of Alternate Aperture Phase-Shifting Masks Fabricated using a Subtractive Process", <u>J. Vac. Sci. Tech. B, Vol. 10(6)</u> , (Nov/Dec 1992),3055-3061	
	A18	LEVENSEN, M.D., et al., "Phase Phirst! An Improved Strong-PSM Paradigm", Proc. os SPIE, Vol. 4186, (2001),395-404	
	A19	LIN, CHIH-CHENG.,et al., "Alternating PSM defect printability at 193-nm wavelength", 21st Annual BACUS Symposium on Photomask Technology Vol. 4562, No.II, SPIE, (2002),1121-1125	
	A20	MAURER, WILHELM.,et al., "Proximity Effects of Alternating Phase Shift Masks", 19th Annual Symposium on Photomask Technology, Vol. 3873, No. I, SPIE, (9/1999),344-349	
	A21	MISAKA, AKIO.,et al., "Improved outline phase shifting mask for reduction of the mask error enhancement factor", Optical Microlithography XVI, Proceedings of SPIE, Vol. 5040, (2003),1220-1230	•
	A22	MURAI, SHIAKI.,et al., "Establishment of Production Process and Assurance Method for Alternating Phase Shift Masks", 20th Annual BACUS Symposium on Photomask Technology,SPIE Vol. 4186, (2001),890-901	
	A23	PETERSEN, JOHN.S. ,et al. ,"Designing Dual-Trench Alternating Phase-Shift Masks for 140 NM and Smaller Features Using 248 NM KRF and 193 NM ARF Lithography", Proc. of SPIE, Vol. 3412, (1998),503-520	
·	A24	PIERRAT, C., "Investigation of Proximity Effects in Alternating Aperture Phase Shifting Masks", 20th Annual BACUS Symposium on Photomask Technology, Vol. 4186, SPIE, (2001),325-335	
	A25 ·	PIERRAT, CHRISTOPHE.,et al., "New alternating phase-shifting mask conversion methodology using phase conflict resolution", Optical Microlithography XV, Vol. 4691, No. I, SPIE, (2002),325-335	
	A26	SAITOU, HIDETAKA.,et al., "Improvement of Alt-PSM Production Process Using Backside Phase Measurement Method", 21st Annual BACUS Symposium on Photomask Technology Vol. 4562, No. II, SPIE, (2002),1087-1095	
	A27	SHIN, IN-GYUN.,et al., "A Study on the effect of mask reduction ratio in alternating phase shift masks", 20th Annual BACUS Symposium on Photomask Technology, Vol.4186, SPIE, (2001),309-315	
	A28	SPENCE, CHRISTOPHER.,et al., "Integration of Optical Proximity Correction Strategies in Strong Phase Shifters Design for Poly-Gate Layers", 19th Annual Symposium on Photomask Technology, Vol. 3873, No.I SPIE, (9/1999),277-287	
10	A29	TAN, SIA.K., "Optimization of Alternating PSM Mask Process for 65 nm Poly Gate Patterning Using 193 nm Lithography", Optical Microlithography XVI, SPIE Vol. 5040,	

EXAMINER .	Pasco	DATE CONSIDERED	2-1-0	6

PTO/SB064(10-0)
Approved for use through 10/31/2002, OMB 651-003
Prival & Tredwise College U.B. DEPARTMENT OF CONDERCY

Substitute for form 1449APTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Complete il Known		
	Application Number	10/728,436	
	Filing Date	December 5, 2003	
	First Named Inventor	Chen, Yung-Tin	
	Group Art Unit	1756	
	Examiner Name	Unknown	
Sheet 3 of 3	Attorney Docket No: MA-111		

	OTH	ER DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	1,3
		(2003),1125-1136	
Fa	A30	THIELE, JORG.,et al., "Introduction of full level alternating phase shift mask technology into IC manufacturing", Optical Microlithography XV, Vol. 4691, No.I, SPIE, (2002),89-97	
1	A31	TSAI, W.,et al., "Technological Challenges in Implementation of Alternating Phase Shift Mask", 20th Annual BACUS Symposium on Photomask Technology, Vol. 4186, SPIE, (2001),433-443	
Da	A32	WESTERMAN, R.,et al., "Plasma Etching of Quartz for the Fabrication of Alternating Aperture Phase Shift Photomasks: Etch Rate Uniformity Study", 20th Annual BACUS Symposium on Photomask Technology, Vol. 4186, SPIE, (2001),316-324	
10	A33	WU, CLIVE., "Alternating PSM Design and Its Implications to the Design-to- Manufacturing Flow", ? Numerical Technologies, Inc. 70 W. Plumeria Dr., San Jose, CA 95134,7 pgs	
20	A34	YAMAMOTO, TOMOHIKI.,et al., "Impact of Alternating Phase Shift Mask Quality on 100 nm Gate Lithography", 20th Annual BACUS Symposium on Photomask Technology, Vol. 4186, SPIE, (2001),423-432	
20	A35	YOON, SI-YEUL.,et al., "Evaluation of various alternating phase shifting mask processes for KrF lithography", 21st Annual BACUS Symposium on Photomask Technology Vol. 4562, No. II, SPIE, (2002),1017-1025	